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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,766	10/15/2003	Vladimir Faifer	1973	
75	90 11/01/2006		EXAMINER	
ANN KOO 1631 NORTH FIRST STREET SAN JOSE, CA 95112			NGUYEN, TUNG X	
			ART UNIT	PAPER NUMBER
<b>,</b>			2829	
			DATE MAILED: 11/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<del></del>	Application No.	Amplicantic			
		Application No.	Applicant(s)			
Office Action Summary		10/688,766	FAIFER ET AL.			
Office A	Cuon Summary	Examiner	Art Unit			
		Tung X. Nguyen	2829			
The MAILING Period for Reply	G DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
WHICHEVER IS LO - Extensions of time may after SIX (6) MONTHS fi - If NO period for reply is: - Failure to reply within the Any reply received by th	TATUTORY PERIOD FOR REPLY ONGER, FROM THE MAILING DA be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. Specified above, the maximum statutory period we set or extended period for reply will, by statute, e Office later than three months after the mailing stment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ Responsive t	o communication(s) filed on 17 Ju	ily 2006.				
2a) This action is	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this ap	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in acc	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 ar</u>	☑ Claim(s) 1 and 2 is/are rejected.					
7)⊠ Claim(s) <u>3-5</u>						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		•				
9) The specifica	tion is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>15 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.	C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
			Vr-8			
Attachment(s)			HA TRAN NGUYEN ISORY PATENT EXAMINED			
1) Notice of References	Cited (PTO-892)	4) Interview Summary (PTO-413)				
	n's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P				
3) Information Disclosure Paper No(s)/Mail Date	e Statement(s) (PTO/SB/08)	6) Other:	atom: ipproduori			

#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of group I with claims 1-5 in the reply filed on 7/17/06 is acknowledged.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verkuil (u.s.p 5.442,297); in view of Curtis et al. (u.s.p 4,812,756 heretoafter Curtis).

As to the claim 1, Verkuil discloses in Fig. 1, a contactless sheet resistance measurement apparatus for measuring sheet resistance comprising: means (129) for illuminating the area of semiconductor structure (10) with intensity modulated light (124); means (131,130, 132) for detecting SPV signals outside the illumination area optically coupled to said illuminating means; and means (120) for measurement of said SPV signals outside the illumination area connected to said means for detecting SPV signals. Verkuil does not teach the means for detecting and measuring said SPV signal inside the illumination area optically coupled to said illuminating means. However, Curtis discloses in Fig. 1, the means for detecting (30) and measuring (100, 102, 104 106) the SPV signal inside the illumination area optically coupled to said illuminating means for adjusting the voltage at its terminal (110) and approximating the surface photovoltage

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on the device under test (21, col. 3, lines 45-60). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to provide the means for detecting and measuring the SPV signal inside the illumination area, as taught by Curtis for adjusting the voltage at its terminal (110) and approximating the surface photovoltage on the device under test (21, col. 3, lines 45-60).

As to the claim 2, Verkuil discloses in Fig. 1, the illumination means (129) comprises a light emitting diode (124) with a driver (128, 200) forming the sinusoidal illumination and an optical fiber directing the light onto the wafer surface (col. 3, lines 45-55).

## Allowable Subject Matter

- 4. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

As to the claims 3-5, the prior art does not teach the means for detecting of SPV signals comprises a transparent conducting electrode optically coupled with a light source used for detecting SPV signal inside the illumination are; in combination with the other claimed features.

### Conclusion

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X. Nguyen whose telephone number is (571) 272-1967. The examiner can normally be reached on 8:30am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha T. Nguyen can be reached on (571) 272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN 10/27/06

> HA TRAN NGUYEN SUPERVISORY PATENT EXAMINER